

- 1 -
piece 1, NC_000913, gltD_RIP356+, config: linear, direction: +, begin: 3358609, end: 3358729

5' g a c g g t a t t a t g a a c t c g g t g g a a g t t a a g c g a g t a a c a a t t a t t c t g c a g a c t t g t c t g g c a a g t a a c a a t t a c t a 3'

-asp - gly - ile - met - asn - trp - leu - glu - val -

-thr - val - leu -

-arg - tyr - tyr - glu - leu - ala - gly - ser - leu - ser - glu - val - thr - met - asn - ser - pro - asp - cys - val - trp - arg - ile - lys - leu - leu - thr

*3358610 * *3358620 * *3358630 * *3358640 * *3358650 * *3358660 * *3358670 * *3358680 *

-asp - gly - ile - met - asn - trp - leu - glu - val -

-thr - val - leu -

-arg - tyr - tyr - glu - leu - ala - gly - ser - leu - ser - glu - val - thr - met - asn - ser - pro - asp - cys - val - trp - arg - ile - lys - leu - leu - thr

fMet - ser - gly - glu - ser - asn - tyr -

sd-(6)-ir 3358650 Gap 4.3 bits
 sd-ir 3358650 gltD_RIP356+ total 8.5 bits

The diagram illustrates the 5' Untranslated Region (UTR) of the LYS gene. The sequence starts with a methionine (fMet) initiation site at position 3358690, indicated by a red asterisk (*). The reading frame then continues through the first 10 codons of the Lys protein, shown as follows:

fMet - arg - val - val - phe - trp - gln - met - arg - his - glu - arg -

lys - cys - ala - leu - phe - ser - gly - lys - cys - gly - met - ser -

The sequence is presented in two rows: the top row shows the DNA sequence with positions 3358690, 3358700, 3358710, and 3358720 marked by red asterisks; the bottom row shows the corresponding amino acid sequence.